This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 Claims 1-9 (canceled)
- 1 Claim 10 (original): Apparatus for measuring the
- 2 propagation time (T_0) of an ultrasound signal, the apparatus
- 3 comprising:
- 4 means for forming an excitation signal;
- 5 an emitter transducer (1, 2) connected to said means
- 6 for forming an excitation signal;
- 7 a receiver transducer (2, 1) to transform the
- 8 ultrasound signal into a receive signal; and
- 9 comparator means connected to said receiver transducer
- 10 to compare the amplitude of the receive signal with a
- 11 trigger threshold voltage and to generate a signal
- 12 representative of oscillations of said receive signal;
- 13 the apparatus being characterized in that it further
- 14 comprises:
- means for measuring a fixed time (HB1, HB2) connected
- 16 to said means for forming an excitation signal in order to
- 17 measure a fixed time (T_0) from the instant at which the
- 18 emitter transducer is excited;
- means for determining an ith oscillation (HB3, HB4),
- 20 which means are connected to said comparator means, to
- 21 count the number of oscillations in the receive signal and
- 22 to detect the ith oscillation; and
- means (HB5) for measuring a variable time (T_{IEX})
- 24 between the end of measuring the fixed time (T_0) and
- 25 detecting the ith oscillation.

- 1 Claim 11 (original): Apparatus for measuring the
- 2 propagating time (T_p) of an ultrasound signal according to
- 3 claim 10, characterized in that the means for measuring a
- 4 fixed time (T_0) comprise a counter (HB1) and a decoder
- 5 (HB2).
- 1 Claim 12 (original): Apparatus for measuring the
- 2 propagating time (T_p) of an ultrasound sound according to
- 3 claim 10 or claim 11, characterized in that the means for
- 4 determining the ith oscillation comprise a counter (HB3) and
- 5 a decoder (HB4).
- 1 Claim 13 (original): A device for measuring the
- 2 propagation time Tp of an ultrasound signal according to any
- 3 one of claims 10 to 12, characterized in that the means for
- 4 measuring the variable time (T_{IEX}) comprise a time expander
- 5 circuit (HB5).